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NOTICE OF ALLOWANCE AND FEE(S) DUE

27667

7590

08/05/2010

HAYES SOLOWAY P.C. 3450 E. SUNRISE DRIVE, SUITE 140 TUCSON, AZ 85718 EXAMINER
TUCKER, ZACHARY C
ART UNIT PAPER NUMBER

1624

DATE MAILED: 08/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,012	08/15/2006	Berthold Just	PR1NZ S5094	9199

TITLE OF INVENTION: NITROUS BRIDGED DERIVATIVES OF 6H-DIBENZ[C,E][1,2]-OXAPHOSPHORINE-6-OXIDES, PROCESS FOR THE

PREPARATION AND USE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrected internance fee notificated incomplete indicated in the control of the cont	correspondence including ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of a) specifying a new corn	maintenance fees vespondence address:	vill be a and/or	mailed to the current (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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27667 HAYES SOLO 3450 E. SUNRIS TUCSON, AZ 8.	SE DRIVE, SUITE		I Si ac tr	nereby certify that the	is Fee(s	of Mailing or Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the date	nission deposited with the United t class mail in an envelope above, or being facsimile te indicated below.
			_				(Depositor's name)
			-				(Signature) (Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	PR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/598,012 TILE OF INVENTION REPARATION AND U		D DERIVATIVES OF 6	Berthold Just H-DIBENZ[C,E][1,2]-C	XAPHOSPHORINE		PRINZ S5094 DES, PROCESS F	9199 OR THE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	11/05/2010
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TUCKER, Z	ACHARY C	1624	524-005000	_			
CFR 1.363). Change of corresponded ress form PTO/SE "Fee Address" indi	ence address or indication ondence address (or Cha 3/122) attached. ication (or "Fee Address' 2 or more recent) attach	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The fifted below, no assignee of this form is NO control of this form is NO coategories (will not be presented to the present the first properties).	data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign n assignment. 'Y and STATE OR C	COUNT	RY)	up entity Government
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10/598,012 08/15/2006		Berthold Just	PRINZ S5094 9199		
27667 75	590 08/05/2010		EXAMINER		
HAYES SOLOW	/AY P.C.		TUCKER, ZACHARY C		
	DRIVE, SUITE 140		ART UNIT	PAPER NUMBER	
TUCSON, AZ 857	18		1624		
			DATE MAILED: 08/05/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 665 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 665 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/598,012	JUST ET AL.				
Notice of Allowability	Examiner	Art Unit				
	ZACHARY TUCKER	1624				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included nerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>Preliminary Amendment</u>	<u>ent of 15 August 2006</u> .					
2. \boxtimes The allowed claim(s) is/are <u>22-42</u> .						
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application No cuments have been received in this r	national stage applicat				
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	***	0 4MENDMENT - N	OTIOS OF			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF			
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 						
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			lote the			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5.	atent Application				
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413),				
 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 7. ☑ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance 9. ☐ Other 						

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 1/27/2009, 5/27/2008, 2/6/2007,12/14/2006.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview between the unersidgned examiner with Norman P. Soloway on 12 July, 2010:

IN THE CLAIMS;

Claims 33 and 44 have been cancelled without prejudice;

In line 1 of claim 23, page 4 of the correspondence filed 15 August 2006, the phrase "is used a" has been replaced with ",the bishydroxyalyl amine is a bishydroxyalkylamine of formula, (III) or the polyvalent alcohol is a polyvalent alcohol of formula (IV)"

In claim 25, on page 5 of the correspondence filed August 15, the dependency of that claim has been changed to claim 23, rather than claim 22, and in line 1, the phrase "is used a" has been replaced with "the polyvalent alcohol is"

In line 1 of claim 26, on page 6 of the correspondence filed 15 August 2006, the dependency of that claim has been changed to claim 23 rather than claim 22, and the word "a" has been deleted between "wherein" and "bishydroxyalkylamine" and the word

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"where" has been deleted between the word "amine" and "R," and the phrase "in the" has been inserted between the word "wherein" and "bishydroxyalkylamine".

In line 2 of claim 27, on page 6 of the correspondence filed 15 August 2006, the phrase "used as" has been deleted and the word "the" has been inserted between the word "is" and "bishydroxyalkylamine".

In line 2 of claim 28, on page 6 of the correspondence filed 15 August 2006, the phrase "used as" has been deleted and the word "the" has been inserted between the word "is" and "bishydroxyalkylamine".

In line 2 of claim 29, on page 6 of the correspondence filed 15 August 2006, the word "used" has been deleted and the phrase "the 6-alkoxy-6H-dibenz[c,e][1,2]-oxaphosphorine"

In line 1 of claim 30, on page 6 of the correspondence filed 15 August 2006, the word "used" has been deleted between the word "agent" and "in".

In line 1 of claim 31, on page 6 of the correspondence filed 15 August 2006, the word "used" has been deleted between the word "agent" and "in".

In line 1 of claim 32, on page 6 of the correspondence filed 15 August 2006, the phrase "as a by-product" has been inserted between the word "formed" and "in"

In claim 34, on line 1 of page 7 of the correspondence filed 15 August 2006, the word "the" has been deleted.

END OF AMENDMENTS

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Allowable Subject Matter

Claims 22-42 are allowed.

The following is an examiner's statement of reasons for allowance:

A search of the prior art did not afford any disclosure of, nor any suggestion rendering obvious the processes, nitrous bridged derivatives of 6H-dibenz[c,e][1,2-oxaphosphorine-6-oxides according to instant claims 22-42.

The closest prior art with respect to the allowable subject matter is US 4,086,206 (Saito et al), which discloses 1,3,5-triazinyl-bridged derivatives of 6H-dibenz[c,e][1,2]-oxaphosphorine-6-oxides (col.1), JP 61162541 (Tsunetani) (page 4), which discloses a nitrous-bridged derivative of 6H-dibenz[c,e][1,2]-oxaphosphorine-6-oxide, and JP 2001323268 (Hirayama et al) (page 2), which discloses a 1,3,5-triazinyl-bridged derivative of 6H-dibenz[c,3][1,2]-oxaphosphorine-6-oxide, none of which are embraced by Formulae (I) and (II) of the instant claims.

The compounds disclosed in said closest prior art are prepared by a process which differs from that of the instant claims:

US 4,086,026 teaches preparation of the dibenz[c,e][1,2]-oxaphosphorine-6-oxides by dehydrocondensation of organophosphorous compounds according to the following structural formulae:

$$R_3$$
 $O = P - O$
 R_1
 $CH-OH$

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$$R_3$$
 $O = P$
 R_1

with a 1,3,5-triazinyl-compound of the following structural formula:

Thus, the compounds and processes according to the allowed claims are novel and unobvious over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information Disclosure Statements

The references cited in the Information Disclosure Statement filed 14 December 2006, 6 February 2007, 27 May 2008 and 27 January 2009 have been considered, save for DE 10359296, which has not been considered since it was not present in the application file wrapper.

Conclusion

All post-allowance correspondence concerning this application must be mailed to:

Mail Stop Issue Fee Commissioner for Patents

Art Unit: 1624

P.O. Box 1450 Alexandria, VA 22313-1450

Or you can fax them to the Office of Patent Publications at 703-308-5864, in order to expedite the handling of such correspondence as amendments under 37 C.F.R. 1.312; information disclosure statements, and formal drawings. Sending Post-Alllowance papers to Technology Center 1600 will only cause delays in matching papers with the case.

The Notice of Allowance also has an insert containing contact information on other items, including Issue Fees, receipt of formal drawings and the status of the application.

/Zachary C. Tucker/

Primary Examiner, Art Unit 1624